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1 Using temporal profiles of queries for precision prediction.
2 Co-retrieval: a boosted reranking approach for video retrieval.

☑ **document 1 of 2** Order Document

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Accession number & update
0008445089 20070101.
Title
Using temporal profiles of **queries** for precision **prediction.**
Conference information
Proceedings of Sheffield SIGIR 2004. The Twenty-Seventh Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Sheffield, UK, 25-29 July 2004.
Source
Proceedings of Sheffield SIGIR 2004. The Twenty-Seventh Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 2004, p. 18-24, 10 refs, pp. xviii+606.
Publisher: ACM, New York, NY, USA.
Author(s)
Diaz-F, Jones-R.
Author affiliation
Diaz, F., Center for Intelligent Inf. Retrieval, Massachusetts Univ., Amherst, MA, USA.

Abstract
A key missing component in information retrieval systems is self-diagnostic tests to establish whether the system can provide reasonable results for a given **query** on a document collection. If we can measure properties of a retrieved set of documents which allow us to predict average precision, we can automate the decision of whether to elicit **relevance** feedback, or modify the retrieval system in other ways. We use meta-data attached to documents in the form of time stamps to measure the distribution of documents retrieved in response to a **query,** over the time domain, to create a temporal profile for a **query.** We define some useful features over this temporal profile. We find that using these temporal features, together with the content of the documents retrieved, we can improve the **prediction** of average precision for a **query.**

Descriptors
INFORMATION-RETRIEVAL-SYSTEMS; META-DATA; QUERY-FORMULATION; RELEVANCE-FEEDBACK.
Classification codes
C7250R Information-retrieval-techniques*;
C6160 Database-management-systems-DBMS.

Keywords
query-temporal-profiles; precision-prediction; information-retrieval- systems; self-diagnostic-test; document-collection; document-retrieval; relevance-feedback; meta-data; time-domain.

Treatment codes
P Practical.

Language
English.

Publication type
Conference-paper.

Publication year
2004.

Publication date
20040000.

Edition
2005022.

Copyright statement
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☑ **document 2 of 2** Order Document

Inspec - 1898 to date (INZZ)

Accession number & update
0008369534 20070101.

Title
Co-retrieval: a boosted reranking approach for video retrieval.

Conference information
Image and Video Retrieval. Third International Conference, CIVR 2004. Proceedings, Dublin, Ireland, 21-23 July 2004.
Sponsor(s): NDP; Sci. Found. Ireland; DCU; IEE.

Source
Image and Video Retrieval. Third International Conference, CIVR 2004. Proceedings (Lecture Notes in Comput. Sci. Vol.3115), 2004, p. 60-9, 9 refs, pp. xvii+679, ISBN: 3-540-22539-0.
Publisher: Springer-Verlag, Berlin, Germany.

Author(s)
Yan-R, Hauptmann-A-G.
Editor(s): Enser-P, Kompatsiaris-Y, O-Connor-N-E, Smeaton-A-F, Smeulders-A-W-M.

Author affiliation
Yan, R., Hauptmann, A.G., Sch. of Comput. Sci., Carnegie Mellon Univ., Pittsburgh, PA, USA.

Abstract
Video retrieval compares multimedia **queries** to a video collection in multiple dimensions and combines all the retrieval scores into a final ranking. Although text are the most reliable feature for video retrieval, features from other modalities can provide complementary information. This paper presents a reranking framework for video retrieval to augment retrieval based on text features with other evidence. We also propose a boosted reranking algorithm called Co-Retrieval, which combines a boosting type algorithm and a noisy label **prediction** scheme to automatically select the most useful weak hypotheses for different **queries.** The proposed approach is evaluated with **queries** and video from the 65-hour test collection of the 2003 NIST TRECVID evaluation.

Descriptors
CONTENT-BASED-RETRIEVAL; FEATURE-EXTRACTION; IMAGE-RETRIEVAL;
INFORMATION-NEEDS; INFORMATION-RETRIEVAL-SYSTEMS; MULTIMEDIA-COMPUTING;
QUERY-FORMULATION; RELEVANCE-FEEDBACK; TEXT-ANALYSIS;
VIDEO-SIGNAL-PROCESSING.

Classification codes
B6135 Optical-image-and-video-signal-processing*;

C5260D Video-signal-processing*;
C7250R Information-retrieval-techniques;
C7220 Generation-dissemination-and-use-of-information;
C6130M Multimedia;
C5260B Computer-vision-and-image-processing-techniques.

Keywords
video-retrieval; **multimedia-queries;** text-features; boosted-reranking-approach; Co-Retrieval-algorithm; **noisy-label-prediction-scheme;** NIST-TRECVID-evaluation.

Treatment codes
P Practical;
T Theoretical-or-mathematical.

Language
English.

Publication type
Conference-paper.

Publication year
2004.

Publication date
20040000.

Edition
2005015.

Copyright statement
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1 Fast detection of communication patterns in distributed executions   ■
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
        Studies on Collaborative research CASCON '97**
Publisher: IBM Press

Full text available: 🔲 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based
on process-time diagrams are often used to obtain a better understanding of the
execution of the application. The visualization tool we use is Poet, an event tracer
developed at the University of Waterloo. However, these diagrams are often very complex
and do not provide the user with the desired overview of the application. In our
experience, such tools display repeated occurrences of non-trivial commun ...

2 TinyDB: an acquisitional query processing system for sensor networks   ■
◆ Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong
March 2005 **ACM Transactions on Database Systems (TODS),** Volume 30 Issue 1
Publisher: ACM Press

Full text available: 🔲 pdf(1.67 MB)   Additional Information: full citation, abstract, references, citings, index
                                                                terms, review

We discuss the design of an acquisitional query processor for data collection in sensor
networks. Acquisitional issues are those that pertain to where, when, and how often data
is physically acquired (*sampled*) and delivered to query processing operators. By focusing
on the locations and costs of acquiring data, we are able to significantly reduce power
consumption over traditional passive systems that assume the a priori existence of data.
We discuss simple extensions to SQL for controlli ...

Keywords: Query processing, data acquisition, sensor networks

3 DBMiner: a system for data mining in relational databases and data warehouses   ■
Jiawei Han, Jenny Y. Chiang, Sonny Chee, Jianping Chen, Qing Chen, Shan Cheng, Wan
Gong, Micheline Kamber, Krzysztof Koperski, Gang Liu, Yijun Lu, Nebojsa Stefanovic, Lara
Winstone, Betty B. Xia, Osmar R. Zaiane, Shuhua Zhang, Hua Zhu
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
        Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(280.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

A data mining system, DBMiner, has been developed for interactive mining of multiple-level knowledge in large relational databases and data warehouses. The system implements a wide spectrum of data mining functions, including characterization, comparison, association, classification, prediction, and clustering. By incorporating several interesting data mining techniques, including OLAP and attribute-oriented induction, statistical analysis, progressive deepening for mining multiple-level knowled ...

4   Using domain knowledge in knowledge discovery
Suk-Chung Yoon, Lawrence J. Henschen, E. K. Park, Sam Makki
November 1999 **Proceedings of the eighth international conference on Information and knowledge management CIKM '99**
Publisher: ACM Press

Full text available: pdf(878.28 KB)   Additional Information: full citation, abstract, references, index terms

With the explosive growth of the size of databases, many knowledge discovery applications deal with large quantities of data. There is an urgent need to develop methodologies which will allow the applications to focus search to a potentially interesting and relevant portion of the data, which can reduce the computational complexity of the knowledge discovery process and improve the interestingness of discovered knowledge. Previous work on semantic query optimization, which is an approach to ...

5   Research centers: Database research at the University of Illinois at Urbana-Champaign
M. Winslett, K. Chang, A. Doan, J. Han, C. Zhai, Y. Zhou
September 2002 **ACM SIGMOD Record**, Volume 31 Issue 3
Publisher: ACM Press

Full text available: pdf(668.38 KB)   Additional Information: full citation, references

6   An object-oriented approach to multi-level association rule mining
Scott Fortin, Ling Liu
November 1996 **Proceedings of the fifth international conference on Information and knowledge management CIKM '96**
Publisher: ACM Press

Full text available: pdf(996.66 KB)   Additional Information: full citation, references, citings, index terms

7   A database perspective on knowledge discovery
Tomasz Imielinski, Heikki Mannila
November 1996 **Communications of the ACM,** Volume 39 Issue 11
Publisher: ACM Press

Full text available: pdf(304.96 KB)   Additional Information: full citation, references, citings, index terms

8   Visualizing software objects: Challenges in graph-based relational data visualization
Emanuel G. Noik
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 1 CASCON '92**
Publisher: IBM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, abstract, references

During recent years we have witnessed a growing trend toward the use of visual interfaces to view and query databases. The graph topovisual formalism is particularly well-suited for depicting relational data. The vertices of a directed graph represent a set of entities, while arcs represent relationships among the entities. This paper studies the functional requirements of a hypothetical graph visualization facility (GVF) by surveying past work in related areas and by describing challenging prob ...

9 A classification-based methodology for planning audit strategies in fraud detection
F. Bonchi, F. Giannotti, G. Mainetto, D. Pedreschi
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '99**
Publisher: ACM Press
Full text available: pdf(1.18 MB)   Additional Information: full citation, references, citings, index terms

Keywords: classification, data mining, decision trees, fraud detection, integration of querying and mining, knowledge discovery in databases, logic-based database languages

10 Web clustering and usage mining: Evaluation of web usage mining approaches for user's next request prediction
Mathias Géry, Hatem Haddad
November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management WIDM '03**
Publisher: ACM Press
Full text available: pdf(314.69 KB)   Additional Information: full citation, abstract, references, citings, index terms

Analysis of Web server logs is one of the important challenge to provide Web intelligent services.In this paper, we describe a framework for a recommender system that predicts the user's next requests based on their behaviour discovered from Web Logs data. We compare results from three usage mining approaches: association rules, sequential rules and generalised sequential rules. We use two selection rules criteria: highest confidence and last-subsequence. Experiments are performed on three colle ...

Keywords: association rules, evaluation, frequent generalised sequences, frequent sequences, web usage mining

11 Posters: Action modeling: language models that predict query behavior
G. Craig Murray, Jimmy Lin, Abdur Chowdhury
August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**
Publisher: ACM Press
Full text available: pdf(161.23 KB)   Additional Information: full citation, abstract, references, index terms

We present a novel language modeling approach to capturing the query reformulation behavior of Web search users. Based on a framework that categorizes eight different types of "user moves" (adding/removing query terms, etc.), we treat search sessions as sequence data and build n-gram language models to capture user behavior. We evaluated our models in a prediction task. The results suggest that useful patterns of activity can be extracted from user histories. Furthermore, by examining prediction...

Keywords: query modeling, query reformulation, user models, web search

12 Query result processing: Adaptive web search based on user profile constructed without any effort from users

Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: pdf(311.96 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Web search engines help users find useful information on the World Wide Web (WWW). However, when the same query is submitted by different users, typical search engines return the same result regardless of who submitted the query. Generally, each user has different information needs for his/her query. Therefore, the search result should be adapted to users with different information needs. In this paper, we first propose several approaches to adapting search results according to each user's need ...

Keywords: WWW, information retrieval, user modeling

13 Query expansion based on predictive algorithms for collaborative filtering

Keiichiro Hoashi, Kazunori Matsumoto, Naomi Inoue, Kazuo Hashimoto

September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '01**

Publisher: ACM Press

Full text available: pdf(145.83 KB)   Additional Information: full citation, references, index terms

14 Information Retrieval: Predictive caching and prefetching of query results in search engines

Ronny Lempel, Shlomo Moran

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: pdf(212.73 KB)   Additional Information: full citation, abstract, references, citings, index terms

We study the caching of query result pages in Web search engines. Popular search engines receive millions of queries per day, and efficient policies for caching query results may enable them to lower their response time and reduce their hardware requirements. We present PDC (probability driven cache), a novel scheme tailored for caching search results, that is based on a probabilistic model of search engine users. We then use a trace of over seven million queries submitted to the search engine A ...

Keywords: caching, query processing and optimization

15 Queries: Predicting query performance

Steve Cronen-Townsend, Yun Zhou, W. Bruce Croft

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '02**

Publisher: ACM Press

Full text available: pdf(258.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

We develop a method for predicting query performance by computing the relative entropy

between a query language model and the corresponding collection language model. The resulting *clarity score* measures the coherence of the language usage in documents whose models are likely to generate the query. We suggest that clarity scores measure the ambiguity of a query with respect to a collection of documents and show that they correlate positively with average precision in a variety of TREC tes ...

Keywords: ambiguity, clarity, information theory, language models

16 Query Optimization: Predicting the cost-quality trade-off for information retrieval queries: facilitating database design and query optimization
Henk Ernst Blok, Djoerd Hiemstra, Sunil Choenni, Franciska de Jong, Henk M. Blanken, Peter M.G. Apers
October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**
Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

Efficient, flexible, and scalable integration of full text information retrieval (IR) in a DBMS is not a trivial case. This holds in particular for query optimization in such a context. To facilitate the bulk-oriented behavior of database query processing, a priori knowledge of how to limit the data efficiently prior to query evaluation is very valuable at optimization time. The usually imprecise nature of IR querying provides an extra opportunity to limit the data by a trade-off with the qualit ...

Keywords: Zipf, databases, efficiency, fragmentation, information retrieval, quality, trade-off

17 Ranking and estimation: Ranking robustness: a novel framework to predict query performance
Yun Zhou, W. Bruce Croft
November 2006 **Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06**
Publisher: ACM Press

Full text available: pdf(301.58 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we introduce the notion of ranking robustness, which refers to a property of a ranked list of documents that indicates how stable the ranking is in the presence of uncertainty in the ranked documents. We propose a statistical measure called the robustness score to quantify this notion. We demonstrate that the robustness score significantly and consistently correlates with query performance in a variety of TREC test collections including the GOV2 collection. We compare the robustne ...

Keywords: query performance prediction, ranking robustness

18 Posters: Query word deletion prediction
Rosie Jones, Daniel C. Fain
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**
Publisher: ACM Press

Full text available: pdf(95.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web search query logs contain traces of users' search modifications. One strategy users

employ is deleting terms, presumably to obtain greater coverage. It is useful to model and automate term deletion when arbitrary searches are conjunctively matched against a small hand constructed collection, such as a hand-built hierarchy, or collection of high-quality pages matched with key phrases. Queries with no matches can have words deleted till a match is obtained. We provide algorithms which perform ...

Keywords: query modeling, query reformulation, web search

19 Special session 1: query systems for data retrieval in large personal image and video databases: To search or to label?: predicting the performance of search-based automatic image classifiers
Lyndon S. Kennedy, Shih-Fu Chang, Igor V. Kozintsev
October 2006 **Proceedings of the 8th ACM international workshop on Multimedia information retrieval MIR '06**
Publisher: ACM Press
Full text available: 📄 pdf(1.59 MB)   Additional Information: full citation, abstract, references, index terms

In this work we explore the trade-offs in acquiring training data for image classification models through automated web search as opposed to human annotation. Automated web search comes at no cost in human labor, but sometimes leads to decreased classification performance, while human annotations come at great expense in human labor but result in better performance. The primary contribution of this work is a system for predicting which visual concepts will show the greatest increase in performan ...

Keywords: performance prediction, search-based concept models

20 Mining knowledge at multiple concept levels
Jiawei Han
December 1995 **Proceedings of the fourth international conference on Information and knowledge management CIKM '95**
Publisher: ACM Press
Full text available: 📄 pdf(683.93 KB)   Additional Information: full citation, references, citings, index terms

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